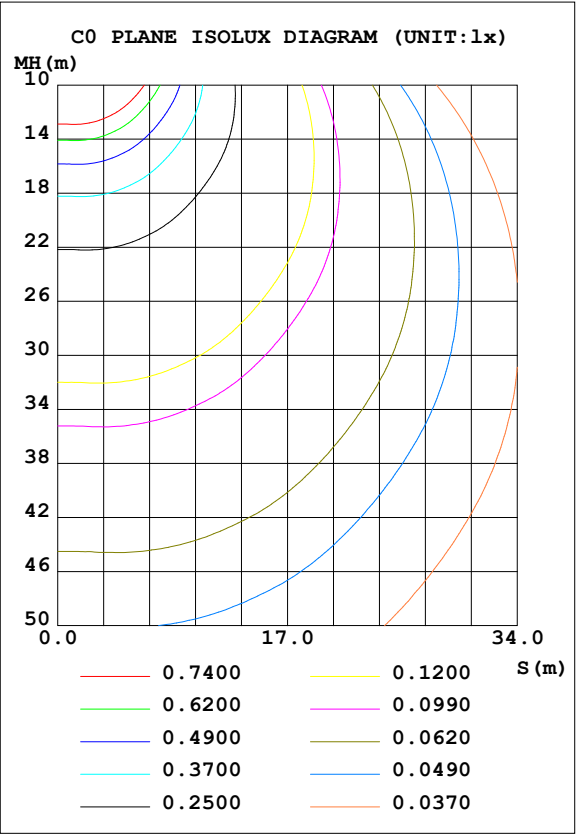
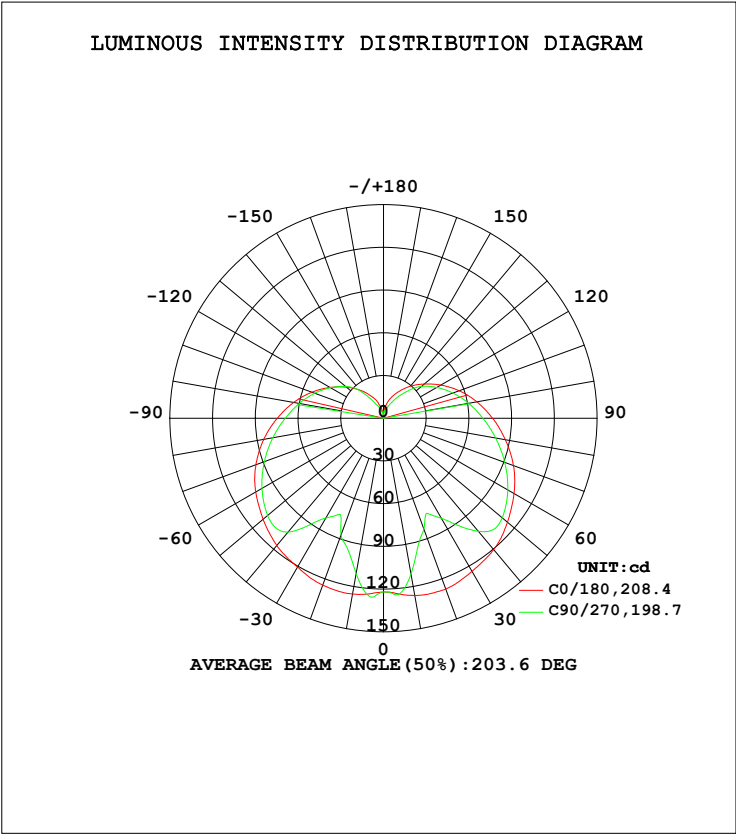


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.98V I:0.0411A P:8.5755W PF:0.9075 Freq:50.00Hz Lamp Flux:811.934x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 94.68 lm/W
MODEL	Nebula	H Pendant-Fluted clear glass	I _{max} (cd)	135.6	S/MH(C0/180)	1.49
NOMINAL POWER(W)	8.5	LOR(%)	100.0	S/MH(C90/270)	0.84	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	811.93	η UP,DN(C0-180)	15.0,35.3	
NOMINAL FLUX(lm)	811.934	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	14.7,34.9	
LAMPS INSIDE	1	η up(%)	29.8	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	230	η down(%)	70.2	CIBSE SHR MAX	1.55	



C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 22.5DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Temperature:25.1DEG	Humidity:60.5%
Operators:Wilson	Test Distance:2.617m [K=1.0000]
Test Date:2022-12-02	Remarks: File No.: WT-F-504-3206-01-A
Checker: Near Gao	Assessor: Akin Xu



ROSS GARDAM

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	126.4	125.8	111.2	123.3	125.3	124.8	110.8	122.1	0- 10	11.83	11.83	1.46,1.46
20	127.6	117.8	82.82	108.6	124.8	116.0	87.17	108.1	10- 20	32.31	44.15	5.44,5.44
30	124.2	113.9	81.04	106.3	120.7	113.5	80.86	108.4	20- 30	49.27	93.42	11.5,11.5
40	120.5	111.6	103.6	109.9	116.7	110.9	104.3	109.0	30- 40	65.61	159.0	19.6,19.6
50	113.6	107.0	108.8	94.43	110.4	103.9	106.2	94.48	40- 50	79.32	238.4	29.4,29.4
60	105.8	93.41	100.8	71.70	103.6	84.41	98.57	75.79	50- 60	86.24	324.6	40,40
70	97.09	77.51	90.59	65.85	95.37	68.16	89.00	69.53	60- 70	87.06	411.7	50.7,50.7
80	86.88	64.56	79.93	59.67	85.36	59.82	78.88	62.79	70- 80	82.95	494.6	60.9,60.9
90	76.62	56.18	69.86	52.35	74.65	52.22	68.99	55.46	80- 90	75.68	570.3	70.2,70.2
100	66.60	49.56	60.74	44.88	64.15	45.21	60.12	48.24	90-100	66.12	636.4	78.4,78.4
110	56.57	45.45	51.90	37.15	53.64	38.66	51.46	41.05	100-110	55.29	691.7	85.2,85.2
120	46.63	40.74	43.36	30.21	43.38	34.79	42.97	34.50	110-120	43.89	735.6	90.6,90.6
130	37.49	34.99	34.87	27.89	34.04	30.87	34.73	31.22	120-130	32.43	768.0	94.6,94.6
140	29.41	27.32	23.90	23.92	25.91	24.07	24.65	26.47	130-140	21.83	789.8	97.3,97.3
150	21.76	18.69	14.73	15.52	18.39	15.73	12.42	18.01	140-150	12.93	802.8	98.9,98.9
160	15.29	12.71	8.551	8.620	12.19	8.879	7.492	10.64	150-160	6.398	809.2	99.7,99.7
170	8.970	7.555	6.063	5.034	5.938	3.680	4.381	6.142	160-170	2.357	811.5	100,100
180	0.3404	0.2747	0.2596	0.2761	0.3404	0.2750	0.2599	0.2768	170-180	0.3962	811.9	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 197.33 lm

%lum = 24.3%
%lamp = 24.3%

Conical surface Flux(120deg): 324.59 lm

%lum = 40.0%
%lamp = 40.0%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-02

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.617m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

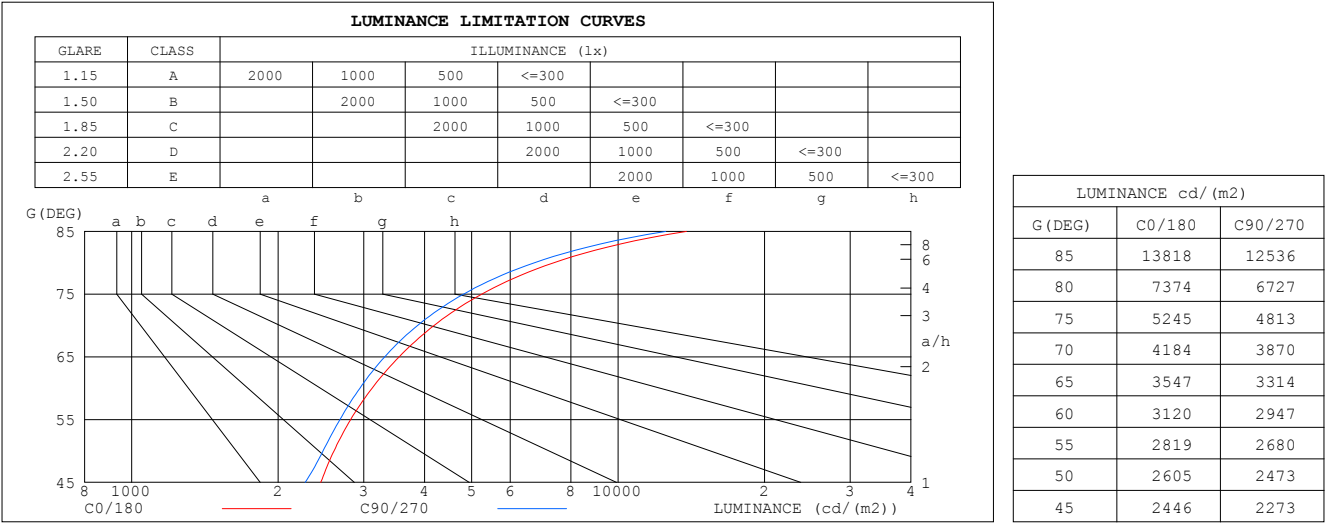
Assessor: Akin Xu



ROSS GARDAM

LUMINANCE LIMITATION CURVES

Test:U:229.98V I:0.0411A P:8.5755W PF:0.9075 Freq:50.00Hz Lamp Flux:811.934x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-02

Checker: Near Gao

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.617m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Assessor: Akin Xu

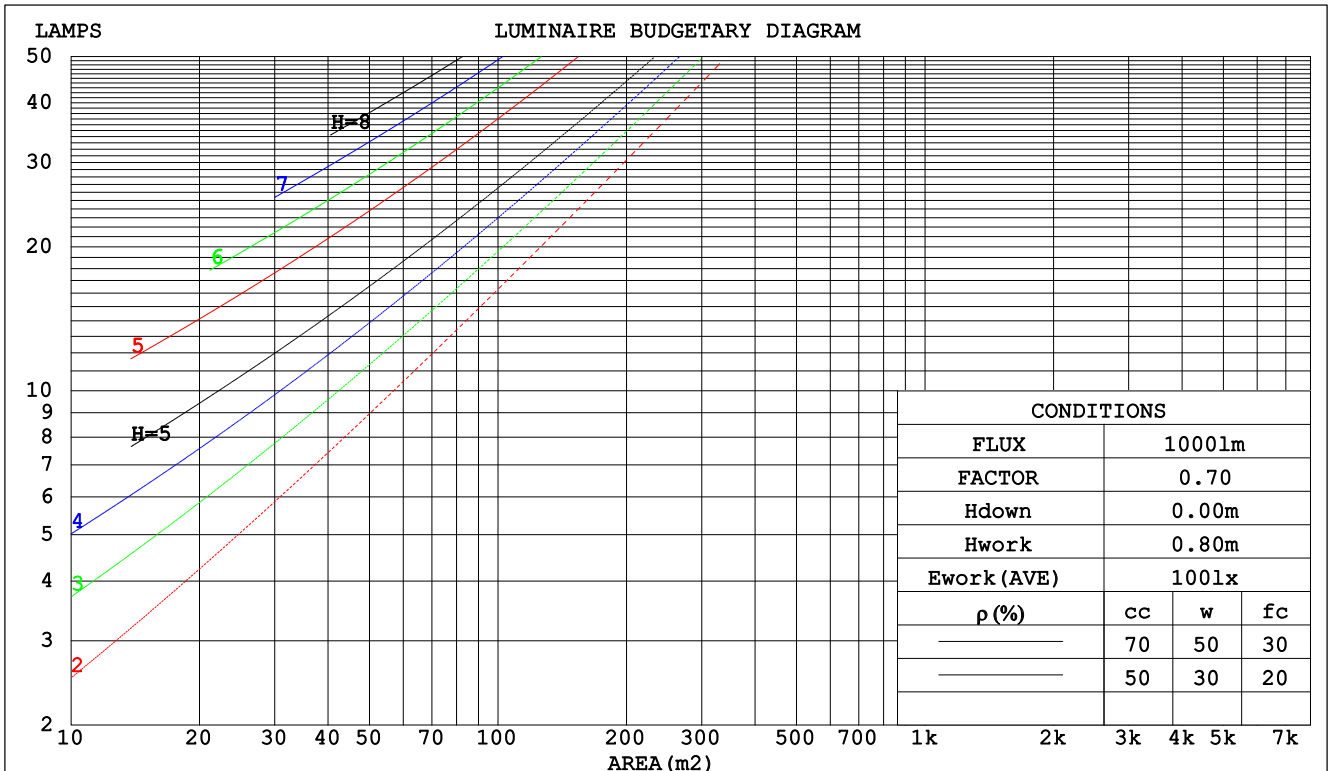


ROSS GARDAM

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.98V I:0.0411A P:8.5755W PF:0.9075 Freq:50.00Hz Lamp Flux:811.934x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.12	1.12	1.12	1.06	1.06	1.06	.95	.95	.95	.84	.84	.84	.75	.75	.75	.70
1.0	.91	.86	.81	.86	.81	.76	.76	.72	.69	.67	.64	.61	.59	.57	.54	.50
2.0	.77	.69	.62	.73	.66	.59	.64	.59	.53	.57	.52	.48	.49	.46	.42	.38
3.0	.67	.57	.50	.63	.54	.48	.55	.49	.43	.49	.43	.39	.42	.38	.34	.31
4.0	.58	.49	.41	.55	.46	.39	.49	.41	.36	.43	.37	.32	.37	.32	.28	.25
5.0	.51	.42	.35	.49	.40	.33	.43	.36	.30	.38	.32	.27	.33	.28	.24	.21
6.0	.46	.36	.30	.43	.35	.28	.38	.31	.26	.34	.28	.23	.30	.25	.21	.18
7.0	.41	.32	.26	.39	.31	.25	.35	.28	.22	.31	.25	.20	.27	.22	.18	.16
8.0	.37	.29	.23	.35	.27	.22	.32	.25	.20	.28	.22	.18	.25	.20	.16	.14
9.0	.34	.26	.20	.32	.24	.19	.29	.22	.17	.26	.20	.16	.23	.18	.14	.12
10.0	.31	.23	.18	.30	.22	.17	.27	.20	.16	.24	.18	.14	.21	.16	.13	.11



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-02

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.617m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu



ROSS GARDAM

WEC AND CCEC

Test:U:229.98V I:0.0411A P:8.5755W PF:0.9075 Freq:50.00Hz Lamp Flux:811.934x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Wall Exitance Coefficients(WEC)												
0.0																
1.0	.411	.234	.074	.395	.225	.072	.364	.209	.067	.336	.194	.062	.310	.180	.058	
2.0	.348	.190	.058	.333	.183	.056	.305	.170	.053	.279	.157	.049	.255	.144	.046	
3.0	.305	.162	.049	.291	.156	.047	.266	.144	.044	.242	.133	.041	.221	.122	.038	
4.0	.272	.141	.042	.260	.136	.040	.237	.125	.037	.215	.116	.035	.195	.106	.032	
5.0	.246	.125	.036	.235	.120	.035	.213	.111	.033	.194	.102	.030	.175	.094	.028	
6.0	.224	.112	.032	.214	.108	.031	.195	.100	.029	.176	.092	.027	.160	.084	.025	
7.0	.206	.102	.029	.197	.098	.028	.179	.090	.026	.162	.083	.024	.146	.076	.022	
8.0	.191	.093	.026	.182	.090	.025	.165	.083	.024	.150	.076	.022	.135	.070	.020	
9.0	.177	.086	.024	.169	.082	.023	.154	.076	.022	.140	.070	.020	.126	.064	.018	
10.0	.165	.079	.022	.158	.076	.021	.144	.070	.020	.131	.065	.018	.118	.059	.017	

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.417	.417	.417	.357	.357	.357	.243	.243	.243	.140	.140	.140	.045	.045	.045	
1.0	.416	.384	.355	.356	.329	.305	.243	.227	.211	.140	.131	.123	.045	.042	.040	
2.0	.410	.362	.321	.351	.311	.278	.241	.215	.194	.139	.125	.114	.045	.041	.037	
3.0	.403	.346	.301	.345	.298	.261	.237	.207	.183	.137	.121	.108	.044	.039	.035	
4.0	.395	.334	.287	.339	.289	.250	.233	.201	.176	.135	.118	.104	.043	.038	.034	
5.0	.387	.324	.278	.333	.281	.242	.229	.196	.171	.133	.115	.101	.043	.038	.033	
6.0	.380	.317	.272	.326	.274	.236	.225	.192	.167	.131	.113	.099	.042	.037	.033	
7.0	.373	.310	.267	.321	.269	.232	.221	.189	.165	.129	.111	.098	.042	.036	.032	
8.0	.366	.305	.263	.315	.265	.229	.218	.186	.163	.127	.110	.097	.041	.036	.032	
9.0	.360	.300	.260	.310	.261	.227	.215	.183	.161	.125	.108	.096	.041	.036	.032	
10.0	.354	.296	.258	.305	.257	.225	.212	.181	.160	.123	.107	.095	.040	.035	.032	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-02

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.617m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu



ROSS GARDAM

UGR(Unified Glare Rating) Table

Test:U:229.98V I:0.0411A P:8.5755W PF:0.9075 Freq:50.00Hz Lamp Flux:811.934x1 lm											
NAME: LED Light					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: Ross Gardam					SUR.:			Shielding Angle:			
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H y = 2H	15.2	16.4	15.8	17.1	17.9	13.9	15.2	14.6	15.9	16.7	
	3H	17.8	19.0	18.5	19.7	20.6	16.8	18.0	17.5	18.7	19.5
	4H	19.3	20.5	20.0	21.2	22.0	18.4	19.6	19.1	20.3	21.1
	6H	21.0	22.1	21.8	22.8	23.7	20.2	21.3	21.0	22.0	22.9
	8H	22.0	23.0	22.7	23.8	24.7	21.2	22.3	22.0	23.0	23.9
	12H	23.1	24.1	23.9	24.9	25.8	22.4	23.4	23.1	24.1	25.0
4H	2H	15.8	16.9	16.4	17.6	18.4	14.9	16.0	15.6	16.7	17.6
	3H	18.6	19.6	19.4	20.4	21.3	17.7	18.7	18.5	19.5	20.4
	4H	20.3	21.2	21.0	21.9	22.9	19.4	20.3	20.2	21.1	22.0
	6H	22.2	23.0	22.9	23.8	24.7	21.4	22.2	22.2	23.0	23.9
	8H	23.2	24.0	24.0	24.8	25.8	22.5	23.3	23.3	24.1	25.0
	12H	24.5	25.2	25.3	26.0	27.0	23.8	24.5	24.6	25.3	26.3
8H	4H	20.7	21.4	21.5	22.2	23.2	20.0	20.7	20.8	21.5	22.5
	6H	22.8	23.4	23.6	24.3	25.3	22.1	22.8	23.0	23.6	24.6
	8H	24.1	24.6	24.9	25.5	26.5	23.4	24.0	24.2	24.8	25.9
	12H	25.6	26.1	26.4	26.9	28.0	24.9	25.4	25.8	26.3	27.3
12H	4H	20.8	21.5	21.6	22.3	23.3	20.1	20.8	20.9	21.7	22.7
	6H	23.0	23.6	23.8	24.4	25.4	22.4	23.0	23.2	23.8	24.8
	8H	24.3	24.8	25.2	25.7	26.8	23.7	24.2	24.6	25.1	26.2
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.2					
2.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 811.9 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.7)
Area: 0.0683146 m²

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-02

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.617m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu



ROSS GARDAM

UTILIZATION FACTORS TABLE

Test:U:229.98V I:0.0411A P:8.5755W PF:0.9075 Freq:50.00Hz Lamp Flux:811.934x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	42	29	22	41	29	22	38	27	21	14
0.80	51	37	29	49	36	28	45	34	27	19
1.00	58	45	36	56	43	35	51	43	33	23
1.25	65	52	42	62	50	41	57	46	39	28
1.50	71	57	48	67	55	46	61	51	44	31
2.00	78	66	57	74	63	55	67	58	51	37
2.50	83	72	63	79	68	60	71	62	56	40
3.00	87	76	68	82	73	65	74	66	60	44
4.00	92	83	76	87	79	72	78	72	66	48
5.00	95	87	81	90	83	77	80	75	70	51
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Wilson
 Test Date:2022-12-02

Checker: Near Gao

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
 Humidity:60.5%
 Test Distance:2.617m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

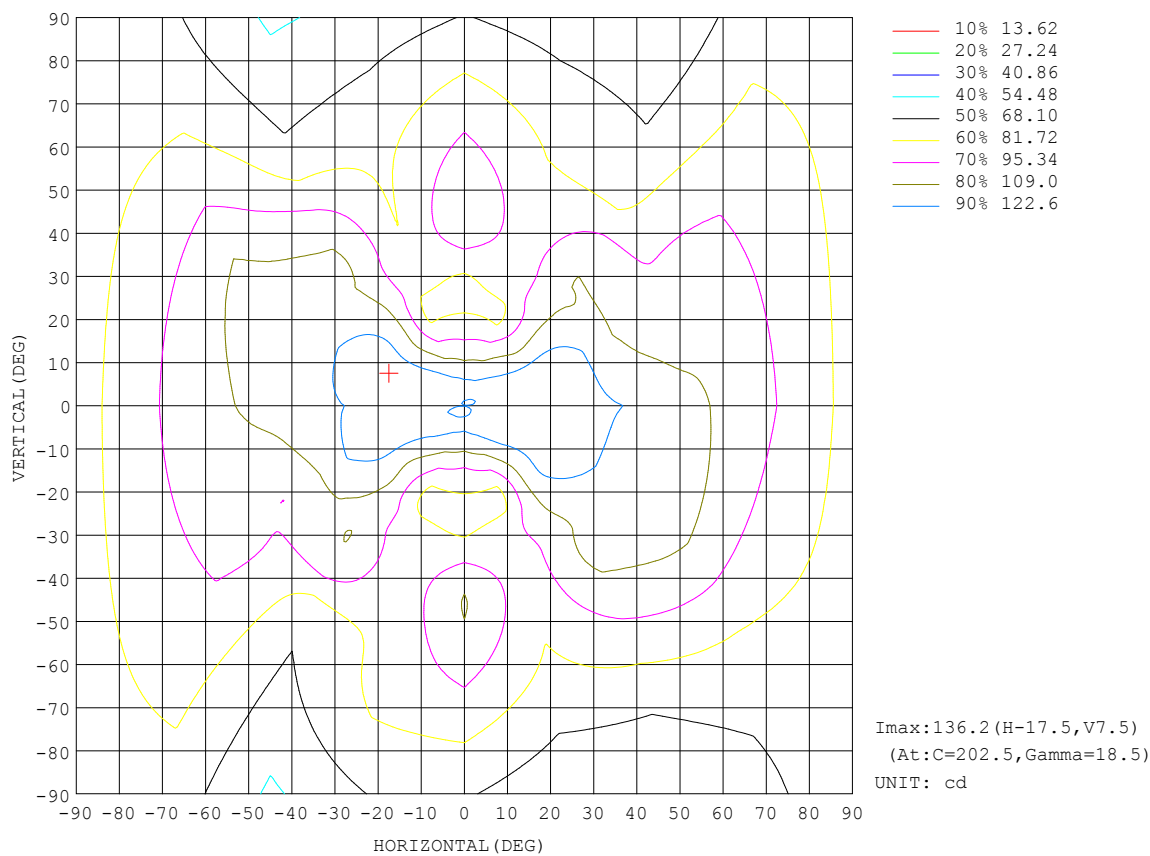
Assessor: Akin Xu



ROSS GARDAM

ISOCANDELA DIAGRAM

Test:U:229.98V I:0.0411A P:8.5755W PF:0.9075 Freq:50.00Hz		
Lamp Flux:811.934x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-02

Checker: Near Gao

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.617m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

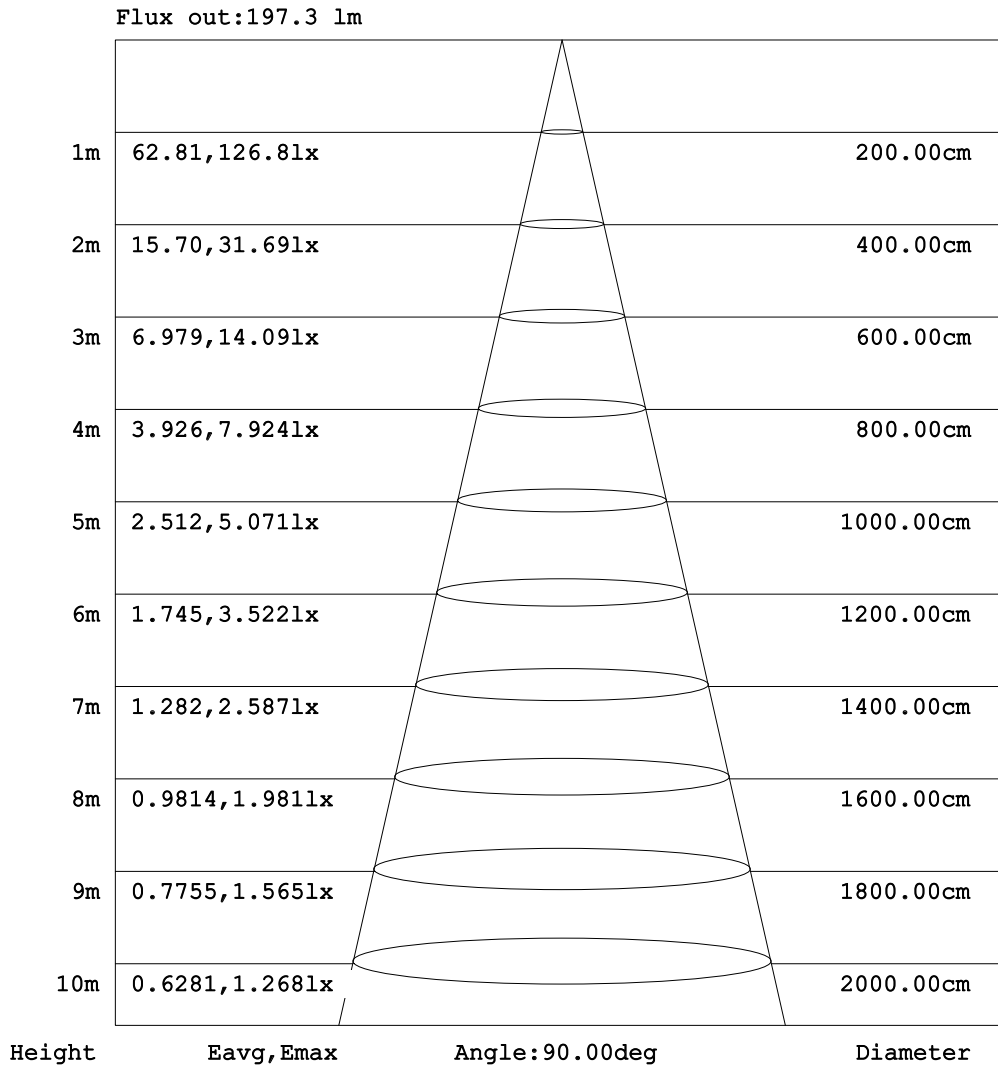
Assessor: Akin Xu



ROSS GARDAM

AAI Figure

Test:U:229.98V I:0.0411A P:8.5755W PF:0.9075 Freq:50.00Hz Lamp Flux:811.934x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-02

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.617m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

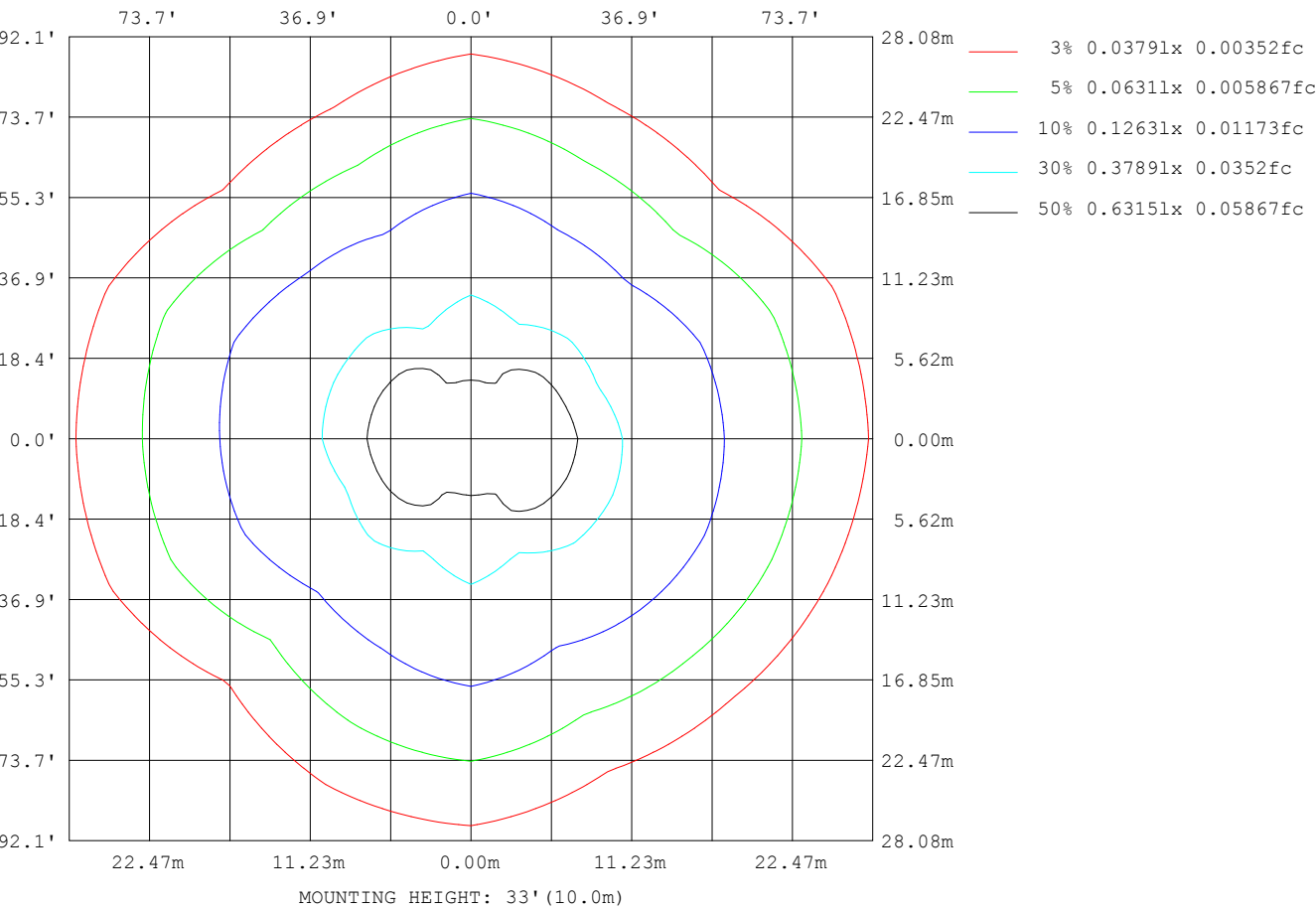
Assessor: Akin Xu



ROSS GARDAM

ISOLUX DIAGRAM

Test:U:229.98V I:0.0411A P:8.5755W PF:0.9075 Freq:50.00Hz Lamp Flux:811.934x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-02

Checker: Near Gao

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.617m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Assessor: Akin Xu



ROSS GARDAM

LED Avg.L Report

Test:U:229.98V I:0.0411A P:8.5755W PF:0.9075 Freq:50.00Hz Lamp Flux:811.934x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180 (65) av	3490
L_0~180 (75) av	5164
L_0~180 (85) av	13582
L_90~270 (65) av	3288
L_90~270 (75) av	4786
L_90~270 (85) av	12487
L_45 (65) av	2607
L_45 (75) av	3719
L_45 (85) av	9715

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-02

Checker: Near Gao

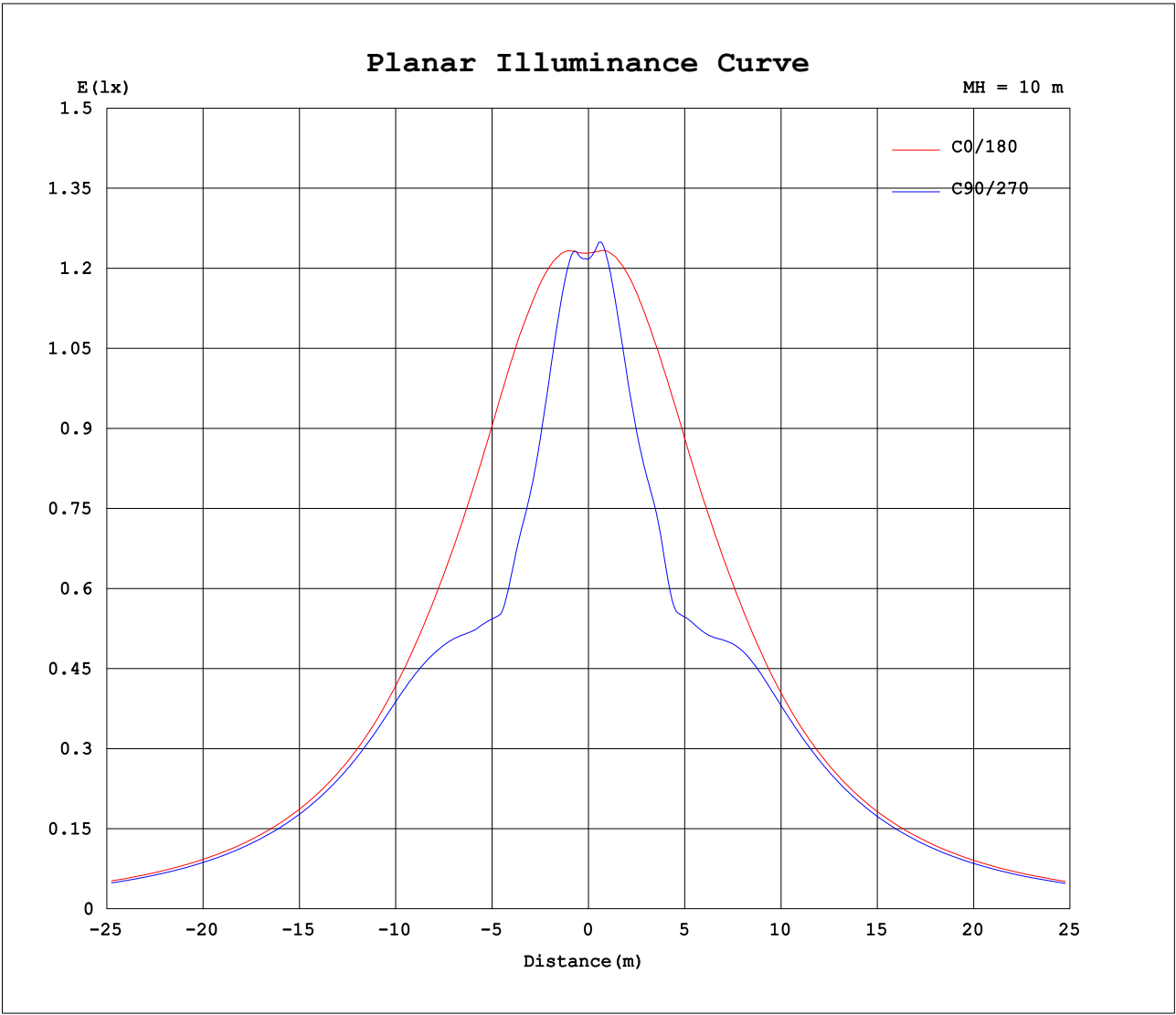
γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.617m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Assessor: Akin Xu



ROSS GARDAM

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-02

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.617m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu



ROSS GARDAM

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.98V I:0.0411A P:8.5755W PF:0.9075 Freq:50.00Hz		
Lamp Flux:811.934x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122			
5	124	124	126	125	124	125	125	124	124	126	128	126	125	125	127	126			
10	126	130	126	116	111	114	123	130	125	132	125	114	111	113	122	131			
15	127	133	119	99.2	93.5	97.5	114	132	125	135	117	98.4	96.0	98.1	113	132			
20	128	134	118	81.9	82.8	81.9	109	133	125	135	116	82.8	87.2	82.0	108	135			
25	126	132	119	79.8	73.9	76.4	109	129	123	131	118	79.2	74.5	81.4	109	132			
30	124	127	114	89.5	81.0	85.1	106	123	121	126	113	84.3	80.9	88.1	108	123			
35	122	119	109	89.1	92.2	85.8	107	113	119	116	109	83.2	91.8	88.3	108	114			
40	120	115	112	86.9	104	85.5	110	104	117	109	111	82.4	104	87.6	109	106			
45	117	118	112	85.4	110	84.8	106	96.2	114	112	110	81.3	108	86.6	103	100			
50	114	117	107	84.2	109	84.4	94.4	96.5	110	115	104	80.5	106	85.4	94.5	98.1			
55	110	113	100	82.5	105	84.4	79.0	100	107	112	95.1	79.6	103	83.8	82.5	102			
60	106	106	93.4	80.2	101	84.7	71.7	99.9	104	109	84.4	78.2	98.6	81.5	75.8	102			
65	102	97.4	85.9	77.2	95.9	84.9	68.5	96.6	99.8	103	74.2	75.9	94.0	78.7	72.6	99.0			
70	97.1	88.2	77.5	73.5	90.6	83.7	65.9	93.1	95.4	94.6	68.2	73.3	89.0	75.6	69.5	94.6			
75	92.1	79.6	70.1	69.7	85.2	81.0	62.9	89.6	90.5	86.9	63.8	70.4	84.0	72.3	66.3	90.1			
80	86.9	72.9	64.6	65.7	79.9	77.3	59.7	85.8	85.4	80.2	59.8	67.1	78.9	68.8	62.8	85.7			
85	81.7	67.6	60.1	61.7	74.8	73.1	56.1	81.4	80.0	74.5	56.0	63.4	73.9	65.1	59.2	81.3			
90	76.6	63.2	56.2	57.8	69.9	68.4	52.3	76.3	74.6	69.5	52.2	59.4	69.0	60.9	55.5	76.6			
95	71.6	59.5	52.6	53.9	65.2	63.7	48.6	70.9	69.4	65.4	48.7	55.2	64.5	56.7	51.8	71.5			
100	66.6	56.5	49.6	50.1	60.7	59.0	44.9	65.2	64.2	61.8	45.2	50.9	60.1	52.4	48.2	66.3			
105	61.6	54.4	47.2	46.3	56.3	54.1	41.0	59.2	58.9	58.5	41.8	46.5	55.8	47.9	44.6	61.4			
110	56.6	52.6	45.5	42.5	51.9	49.0	37.2	53.4	53.6	55.1	38.7	42.2	51.5	43.7	41.1	56.5			
115	51.6	50.4	43.5	38.7	47.6	43.7	33.5	48.2	48.4	50.7	36.1	38.1	47.2	39.7	37.5	51.7			
120	46.6	47.6	40.7	34.9	43.4	37.8	30.2	42.6	43.4	45.3	34.8	34.0	43.0	35.8	34.5	47.0			
125	41.9	43.6	37.7	31.2	39.1	32.5	28.2	35.5	38.5	39.8	33.2	30.0	38.8	32.0	33.1	41.9			
130	37.5	38.6	35.0	27.5	34.9	28.0	27.9	28.8	34.0	33.6	30.9	26.2	34.7	28.2	31.2	35.6			
135	33.4	32.9	32.0	24.2	29.8	24.2	26.6	24.5	29.9	27.1	28.3	22.8	30.4	24.5	29.2	29.6			
140	29.4	26.8	27.3	21.2	23.9	20.7	23.9	21.6	25.9	23.2	24.1	19.9	24.7	21.2	26.5	25.6			
145	25.5	23.3	22.4	19.0	19.2	17.7	19.9	19.3	22.1	20.7	19.4	17.0	17.8	18.2	22.2	22.8			
150	21.8	20.5	18.7	16.4	14.7	14.5	15.5	16.9	18.4	17.9	15.7	14.4	12.4	13.5	18.0	20.2			
155	18.4	17.4	15.6	12.8	11.1	10.9	11.8	14.5	15.3	15.0	12.4	10.4	9.64	11.4	14.6	17.4			
160	15.3	14.2	12.7	9.26	8.55	7.93	8.62	11.6	12.2	11.2	8.88	7.21	7.49	7.86	10.6	14.4			
165	12.2	11.5	10.1	7.96	6.86	6.40	6.91	8.27	8.70	6.84	6.11	5.53	5.22	6.12	8.44	11.1			
170	8.97	9.23	7.55	6.91	6.06	4.75	5.03	6.26	5.94	5.10	3.68	3.07	4.38	4.46	6.14	7.83			
175	5.84	6.36	6.38	5.63	4.52	2.13	2.71	2.45	2.81	0.97	1.85	0.97	0.96	2.07	3.79	4.75			
180	0.34	0.31	0.27	0.26	0.26	0.26	0.28	0.31	0.34	0.31	0.28	0.26	0.26	0.26	0.28	0.32			

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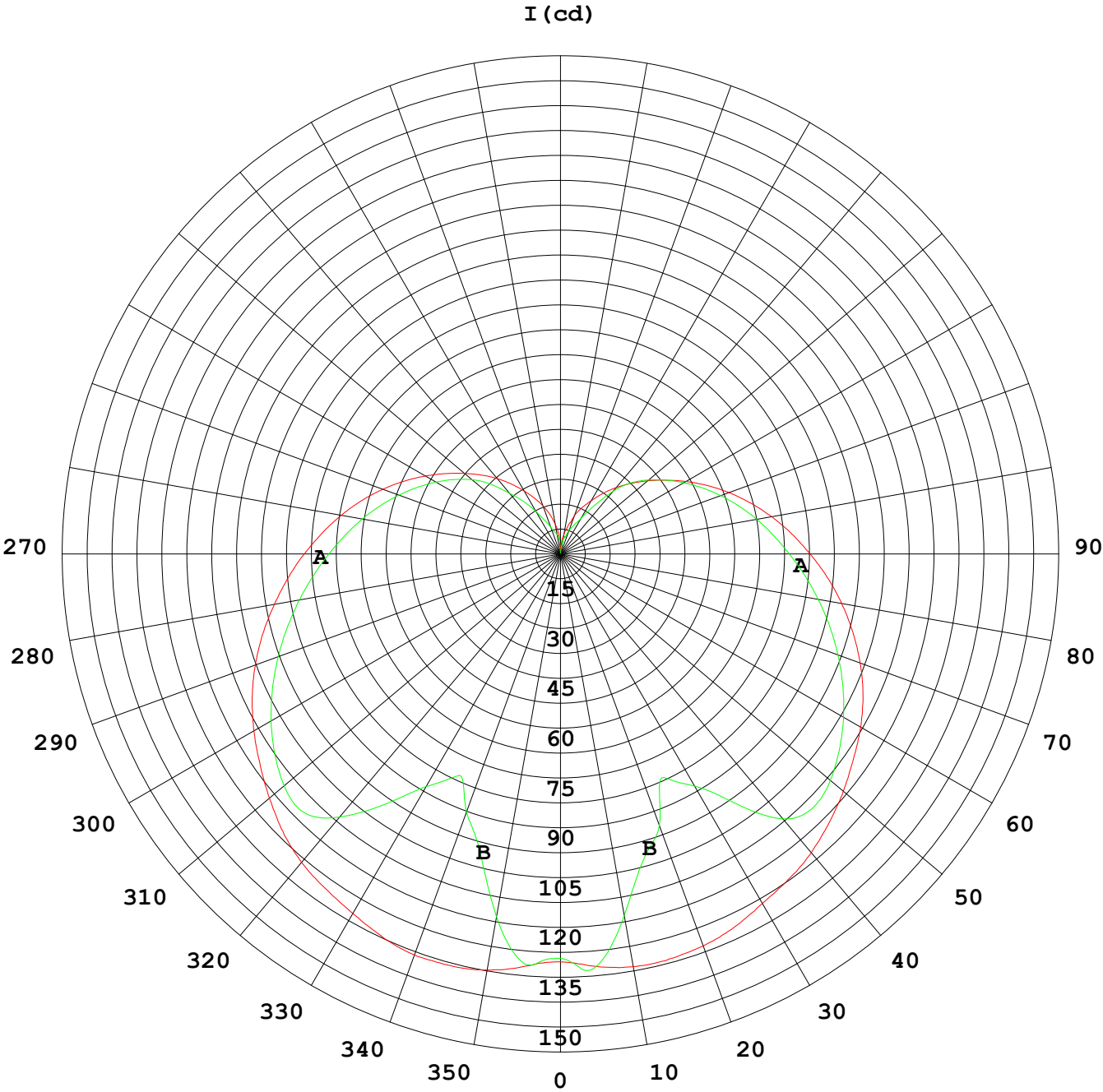
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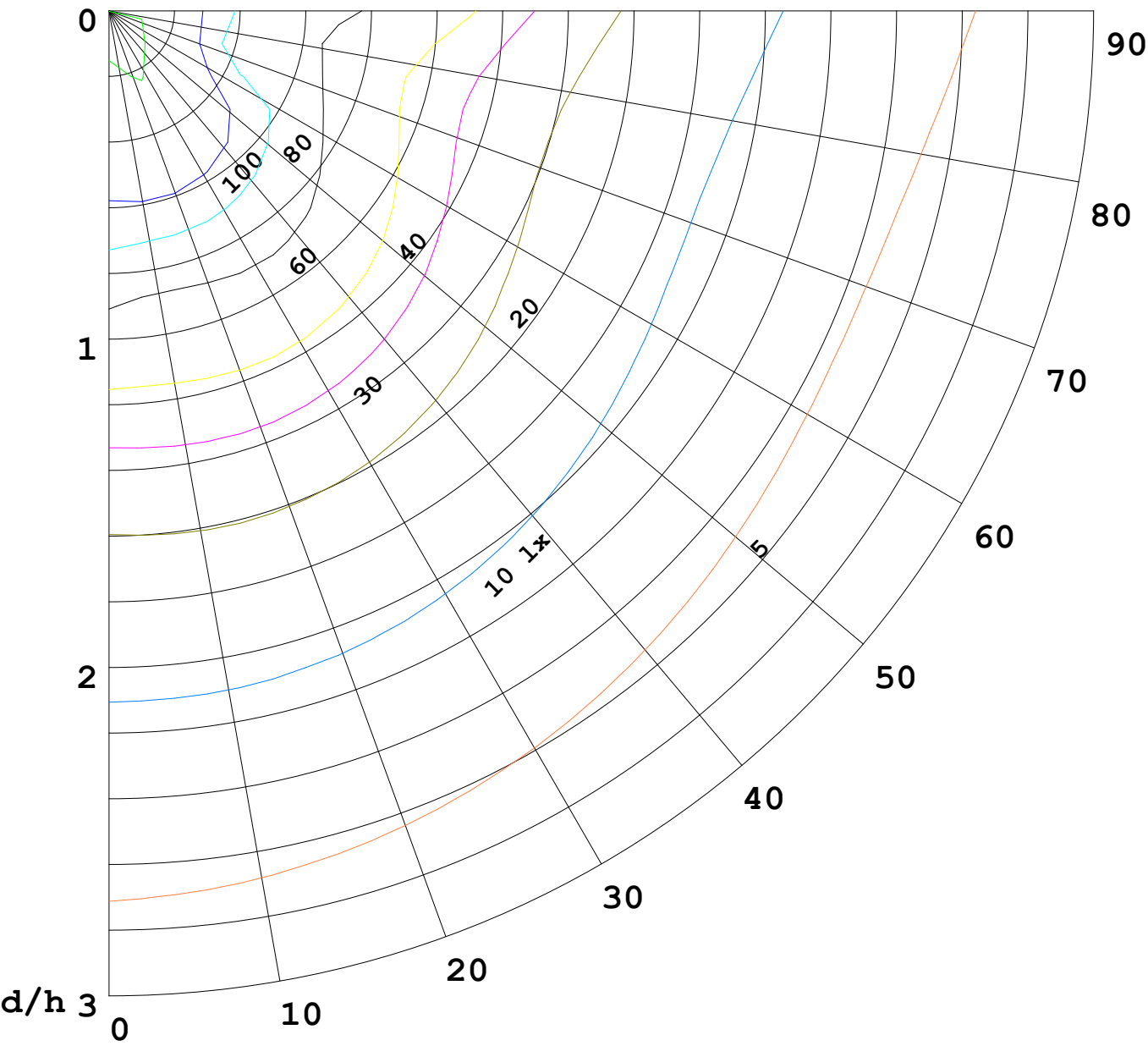
ROSS GARDAM



ROSS GARDAM

1000 lm

$\kappa = 1$



ROSS GARDAM

F = 1000 lm
K = 0.7
Hcc = 0.8 m
Hfc = 0.0 m
Eave = 100 lx

	Pcc	Pw	Pfc
————	70	50	30
————	50	30	20

